Debalina Sengupta

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/36747/publications.pdf

Version: 2024-02-01

43 papers	1,095 citations	471509 17 h-index	414414 32 g-index
46 all docs	46 docs citations	46 times ranked	1304 citing authors

#	Article	IF	Citations
1	Technology review and data analysis for cost assessment of water treatment systems. Science of the Total Environment, 2019, 651, 2749-2761.	8.0	135
2	A review of biodiesel production from microalgae. Clean Technologies and Environmental Policy, 2017, 19, 637-668.	4.1	130
3	Shale gas monetization â€“ A review of downstream processing to chemicals and fuels. Journal of Natural Gas Science and Engineering, 2017, 45, 436-455.	4.4	122
4	Optimization Approach to the Reduction of CO₂ Emissions for Syngas Production Involving Dry Reforming. ACS Sustainable Chemistry and Engineering, 2018, 6, 7532-7544.	6.7	66
5	More on aggregating multiple indicators into a single index for sustainability analyses. Clean Technologies and Environmental Policy, 2012, 14, 765-773.	4.1	61
6	Sustainable Process Design Approach for On-Purpose Propylene Production and Intensification. ACS Sustainable Chemistry and Engineering, 2018, 6, 2407-2421.	6.7	58
7	Environmental and economic analysis for the optimal reuse of water in a residential complex. Journal of Cleaner Production, 2016, 130, 82-91.	9.3	49
8	Parsimonious use of indicators for evaluating sustainability systems with multivariate statistical analyses. Clean Technologies and Environmental Policy, 2013, 15, 699-706.	4.1	37
9	An industrial ecology approach to municipal solid waste management: II. Case studies for recovering energy from the organic fraction of MSW. Resources, Conservation and Recycling, 2015, 104, 317-326.	10.8	33
10	Sustainability in the context of process engineering. Clean Technologies and Environmental Policy, 2015, 17, 833-840.	4.1	31
11	Measuring Progress Towards Sustainability. , 2017, , .		31
12	Disaster-Resilient Design of Manufacturing Facilities Through Process Integration: Principal Strategies, Perspectives, and Research Challenges. Frontiers in Sustainability, 2020, 1, .	2.6	28
13	An industrial ecology approach to municipal solid waste management: I. Methodology. Resources, Conservation and Recycling, 2015, 104, 311-316.	10.8	26
14	Simultaneous Energy and Water Optimisation in Shale Exploration. Processes, 2018, 6, 86.	2.8	22
15	Optimization of water-energy nexus in shale gas exploration: From production to transmission. Energy, 2019, 183, 651-669.	8.8	21
16	Using national inventories for estimating environmental impacts of products from industrial sectors: a case study of ethanol and gasoline. International Journal of Life Cycle Assessment, 2015, 20, 597-607.	4.7	20
17	Economic and system reliability optimization of heat exchanger networks using NSGA-II algorithm. Applied Thermal Engineering, 2017, 124, 716-724.	6.0	20
18	Detailed life cycle assessment of BountyÂ® paper towel operations in the United States. Journal of Cleaner Production, 2016, 131, 509-522.	9.3	18

#	Article	IF	Citations
19	On the optimization of water-energy nexus in shale gas network under price uncertainties. Energy, 2020, 203, 117770.	8.8	18
20	Using module-based learning methods to introduce sustainable manufacturing in engineering curriculum. International Journal of Sustainability in Higher Education, 2017, 18, 307-328.	3.1	15
21	Industrial process system assessment: bridging process engineering and life cycle assessment through multiscale modeling. Journal of Cleaner Production, 2015, 90, 142-152.	9.3	13
22	A computational fluid dynamics evaluation of unconfined hydrogen explosions in high pressure applications. International Journal of Hydrogen Energy, 2018, 43, 16411-16420.	7.1	13
23	An Integrated Approach to the Design of Centralized and Decentralized Biorefineries with Environmental, Safety, and Economic Objectives. Processes, 2020, 8, 1682.	2.8	13
24	Environmental sustainability of countries using the UN MDG indicators by multivariate statistical methods. Environmental Progress and Sustainable Energy, 2015, 34, 198-206.	2.3	12
25	Alternative Pathways for CO2 Utilization via Dry Reforming of Methane. , 2020, , 253-272.		11
26	Hybrid Regeneration Network for Flowback Water Management. Industrial & Engineering Chemistry Research, 2020, 59, 13143-13159.	3.7	9
27	Selection of Sustainable Processes Using Sustainability Footprint Method. Computer Aided Chemical Engineering, 2015, , 311-329.	0.5	8
28	Evaluating Consumer Product Life Cycle Sustainability with Integrated Metrics: A Paper Towel Case Study. Industrial & Engineering Chemistry Research, 2016, 55, 3433-3441.	3.7	8
29	Life cycle assessment for AmbroxÂ® production from different chemical routes. Journal of Cleaner Production, 2016, 130, 202-212.	9.3	8
30	Moving to a decision point in sustainability analyses. , 2015, , 87-129.		7
31	Multilayer Approach for Product Portfolio Optimization: Waste to Added-Value Products. ACS Sustainable Chemistry and Engineering, 2021, 9, 6410-6426.	6.7	7
32	A Process Integration Approach to the Optimization of CO 2 Utilization via Tri-Reforming of Methane. Computer Aided Chemical Engineering, 2017, , 1993-1998.	0.5	6
33	Sustainable Manufacturing Education Modules for Senior Undergraduate or Graduate Engineering Curriculum. Computer Aided Chemical Engineering, 2018, 44, 1657-1662.	0.5	6
34	Incorporating low grade energy recovery in process integrated systems. Current Opinion in Chemical Engineering, 2017, 17, 54-60.	7.8	5
35	Statistical Algorithms for Sustainability Measurement and Decision Making. , 2017, , 153-184.		3
36	Simultaneous optimization of power generation and desalination systems: a general approach with applications to Kuwait. Clean Technologies and Environmental Policy, 2022, 24, 2129-2141.	4.1	3

#	Article	IF	Citations
37	Incorporating Systems Thinking in the Engineering Design Curriculum: Path Forward for Sustainability Education. , 2017, , 201-213.		2
38	Chemicals from Biomass. , 2015, , 1-38.		2
39	Using Ultrafiltration for flowback Water Management in Shale Gas Exploration: Multicontaminant Consideration. Computer Aided Chemical Engineering, 2019, 47, 347-352.	0.5	2
40	Biomass as Feedstock. , 2012, , 911-964.		1
41	Biomass as Feedstock. , 2015, , 1-42.		1
42	Simultaneous Energy and Water Optimization in Shale Exploration. Computer Aided Chemical Engineering, 2018, , 1957-1962.	0.5	0
43	Assessment of modular biorefineries with economic, environmental, and safety considerations. , 2022, , 293-303.		0